

Message

---

**From:** Parker, Robert [Parker.Robert@epa.gov]  
**Sent:** 6/11/2015 5:53:33 PM  
**To:** Cirian, Mike [Cirian.Mike@epa.gov]  
**Subject:** RE: CFAC analytical results compared to standards

I forgot to include that we had manganese in a Flathead River surface water sample that was detected above three times background conditions.

Rob

---

**From:** Cirian, Mike  
**Sent:** Thursday, June 11, 2015 11:46 AM  
**To:** Parker, Robert  
**Subject:** RE: CFAC analytical results compared to standards

Thanks Rob, this is exactly what I was looking for.

Mike

Mike Cirian, PE  
Libby On-site Project Manager  
US EPA  
108 East 9th Street  
Libby, MT 59923  
(406) 293-6194 Office

---

**From:** Parker, Robert  
**Sent:** Thursday, June 11, 2015 11:40 AM  
**To:** Cirian, Mike  
**Subject:** CFAC analytical results compared to standards

Hi Mike –

Here is the information that we've discussed over the phone today.

Contaminants that were detected in Groundwater above three times background conditions and Maximum Contaminant Levels and Montana DEQ-7 human health standard in groundwater (with highest detected concentrations in groundwater compared to Standard) include but not limited to:

- Arsenic (Dissolved) (344 ug/L and the MCL and State Standard is 10 ug/L),
- Chromium (156 ug/L and the MCL and State Standard is 100 ug/L),
- Cyanide (1,040 ug/L and the MCL and State Standard is 200 ug/L),
- Lead (59.3 ug/L and the MCL and State Standard is 15 ug/L),
- Nickel (155 ug/L and the State Standard is 100 ug/L – NO MCL, however),
- Selenium (94.2 ug/L and the MCL and State Standard is 50 ug/L),
- Zinc (5,070 ug/L and the Secondary MCL is 5,000 ug/L and the State Standard is 2,000 ug/L),
- Fluoride (190,000 ug/L and the MCL and State Standard is 4,000 ug/L),
- Nitrate/Nitrite (measured as Nitrogen) (193,000 ug/L and the MCL and State Standard is 10,000 ug/L)

Cyanide was detected in a domestic well at 111 ug/L. (The MCL and State Standard is 200 ug/L)

Contaminants that were detected above three times background conditions and Montana DEQ-7 aquatic life standards in surface water (with highest detected concentrations in surface water) include but not limited to:

Cyanide (43.4 ug/L) in Cedar Creek

Contaminants that were detected above three times background conditions in sediments include but not limited to:

Cyanide in Flathead River

Fluoride in Flathead River

Let me know how else I can help.

Thanks,

Rob

Rob Parker, PE

Site Assessment Manager

Environmental Engineer

US EPA, Region 8, Denver

(303) 312-6664